

FIG. 1

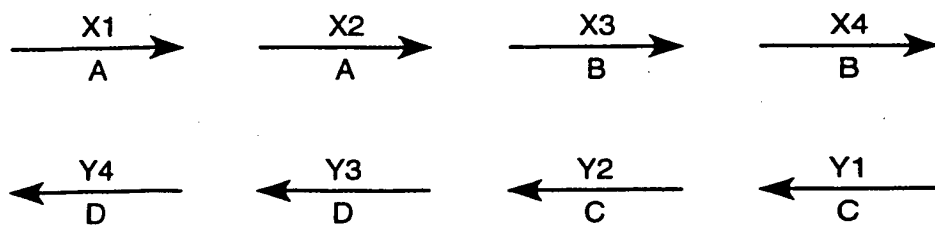


FIG. 2

A	A	B	B			
AD	D	AD	D	BD	D	BD
A		A		B		B
AD	D	AD	D	BD	D	BD
A		A		B		B
AC	C	AC	C	BC	C	BC
A		A		B		B
AC	C	AC	C	BC	C	BC

FIG. 3

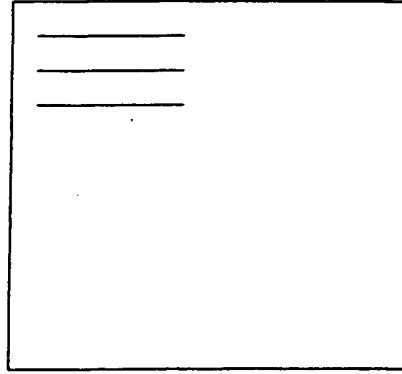
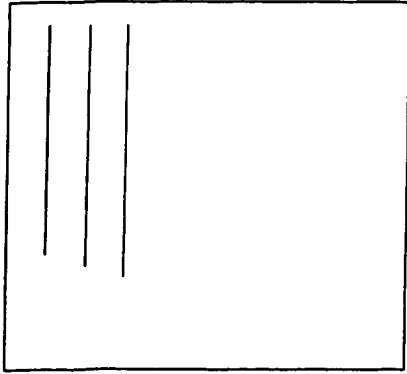


FIG. 4A

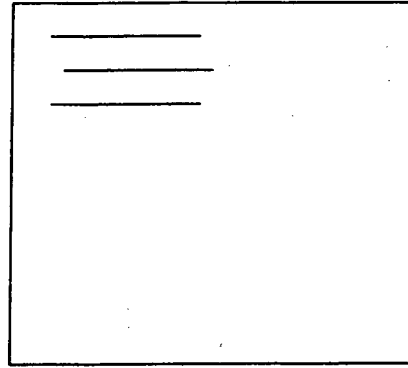
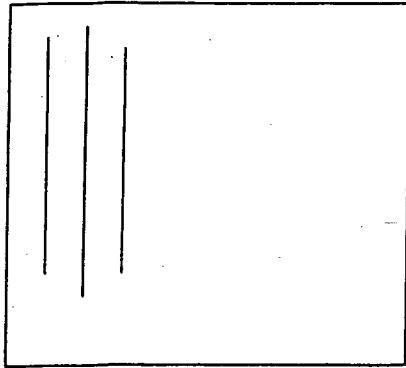


FIG. 4B

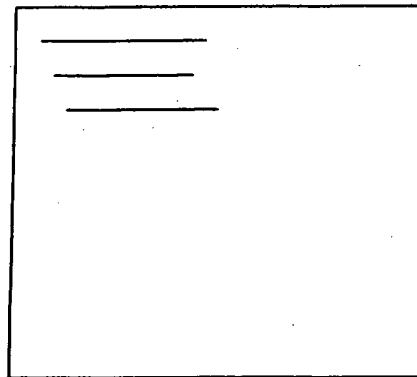
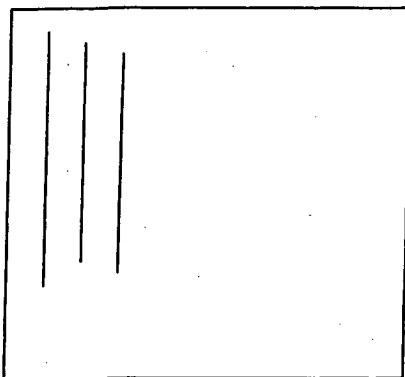


FIG. 4C

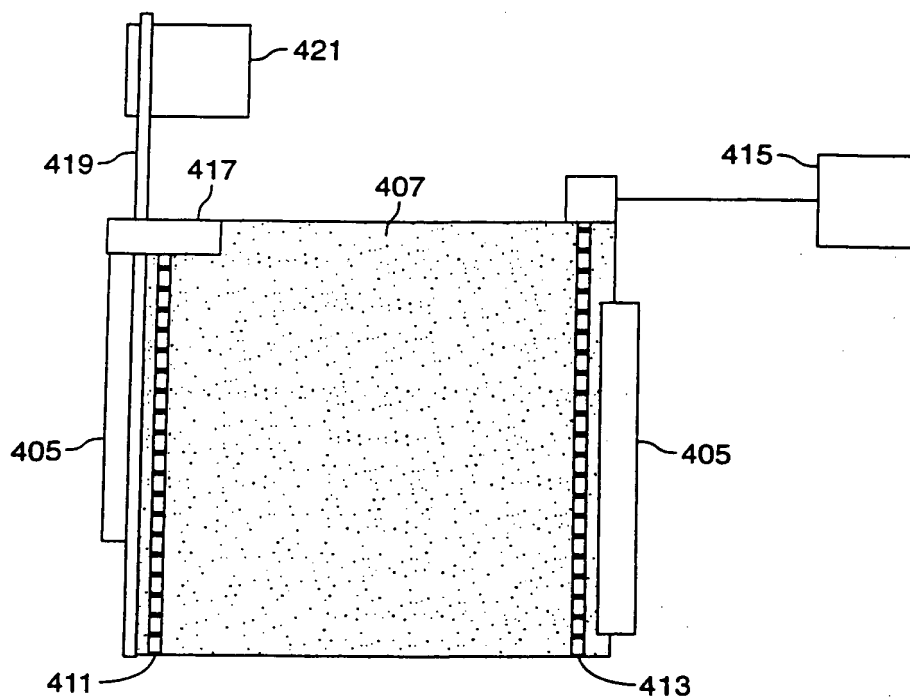


FIG. 5A

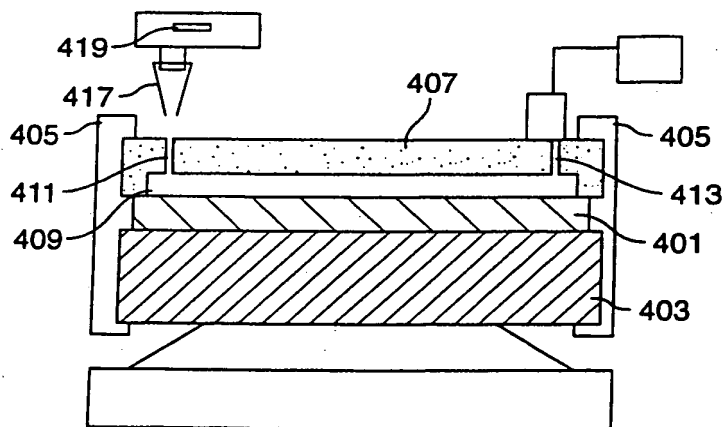


FIG. 5B

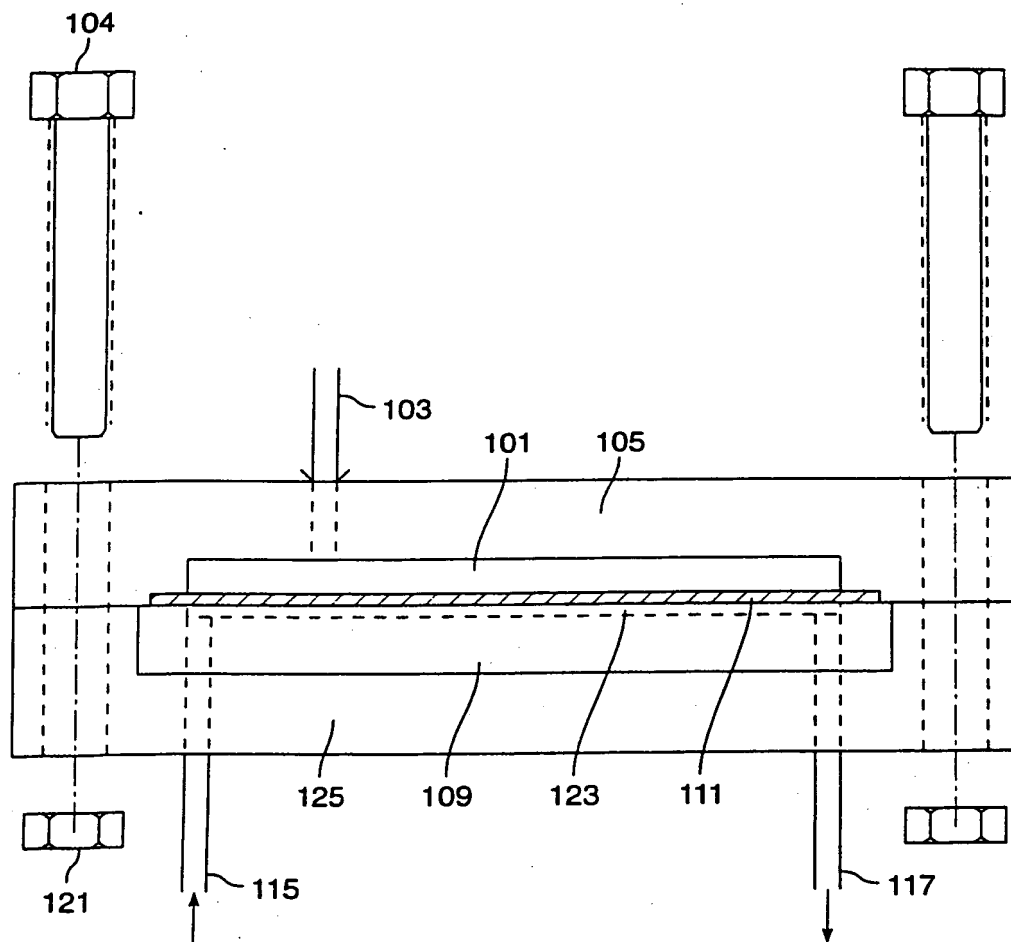


FIG. 6

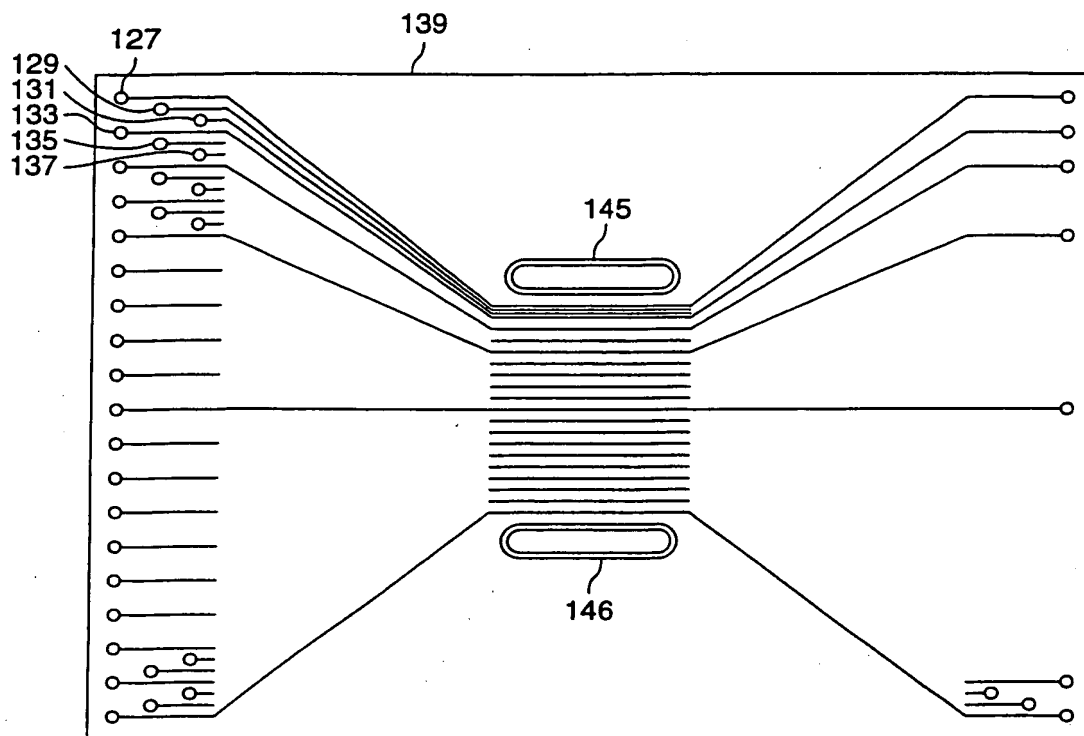


FIG. 7A

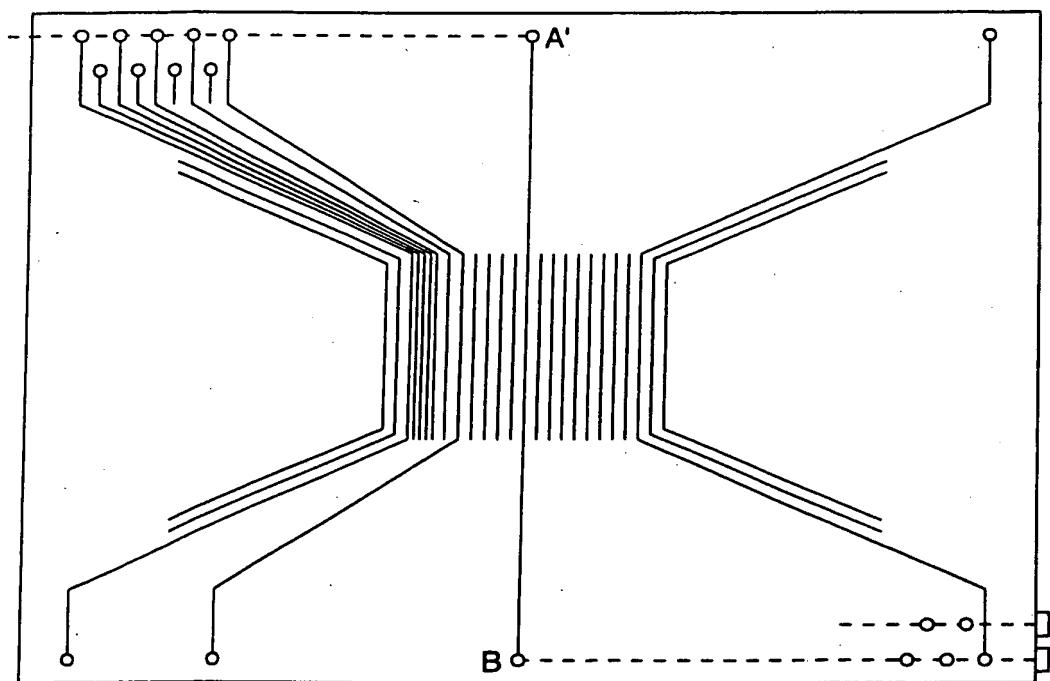


FIG. 7B

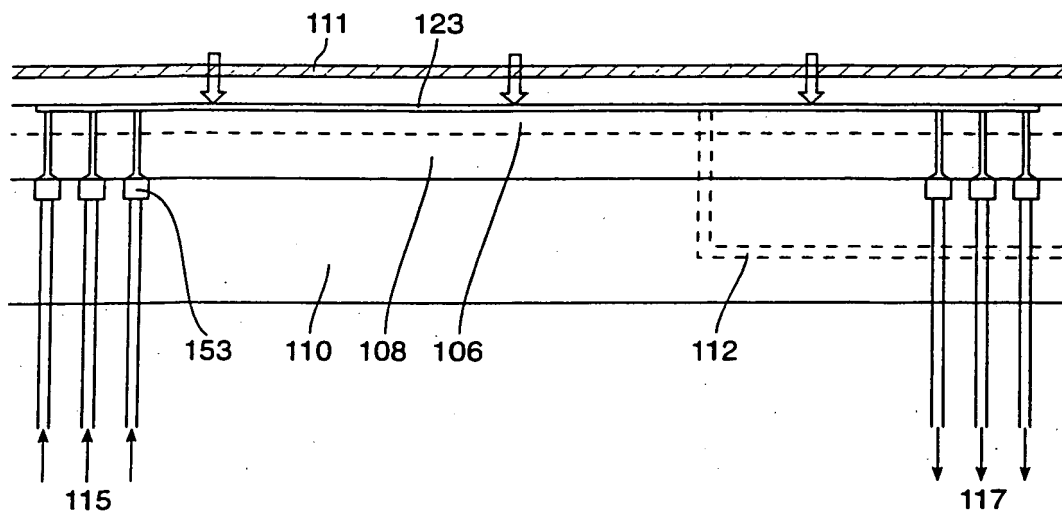


FIG. 8

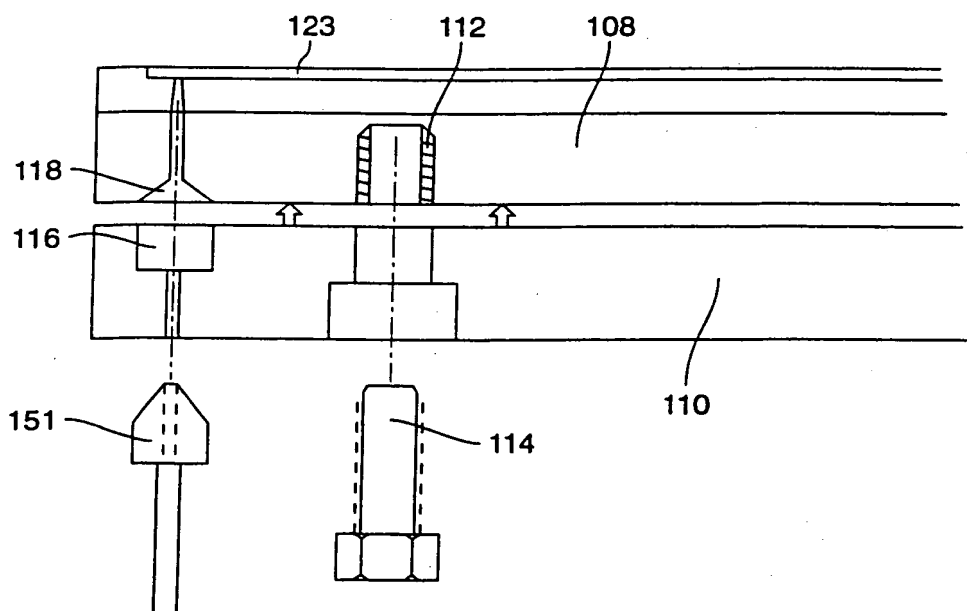


FIG. 9



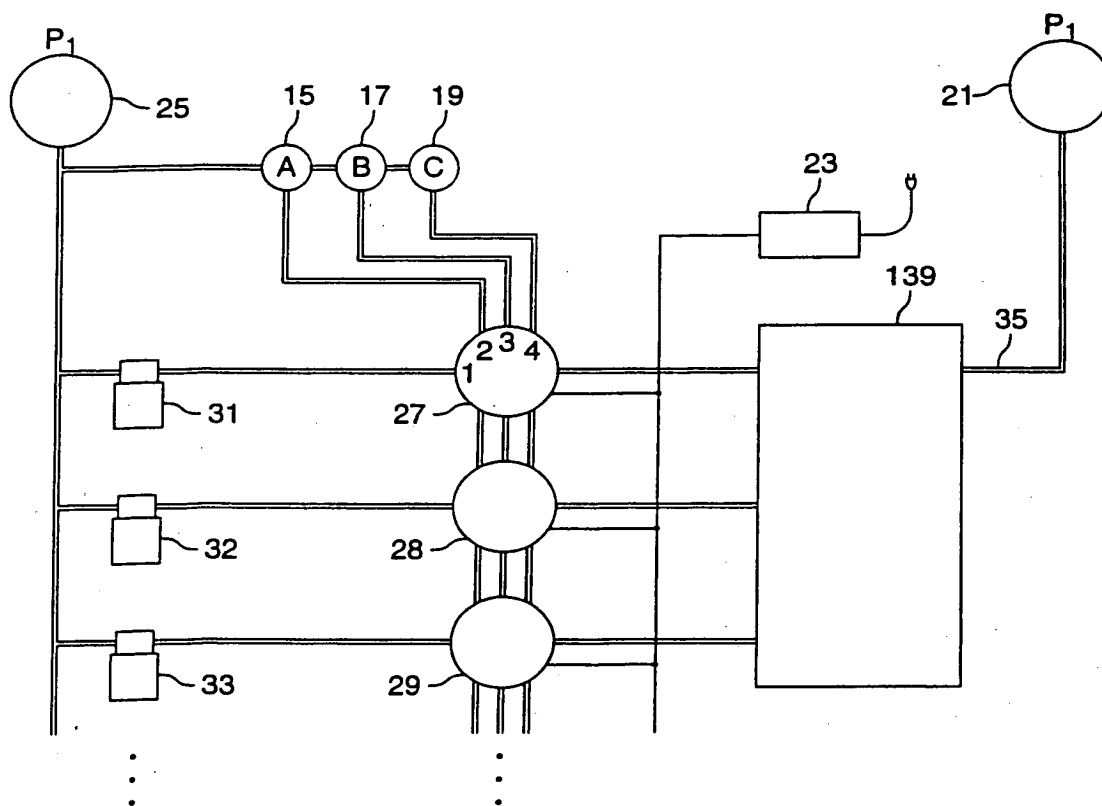


FIG. 10

**FIG. 11B**

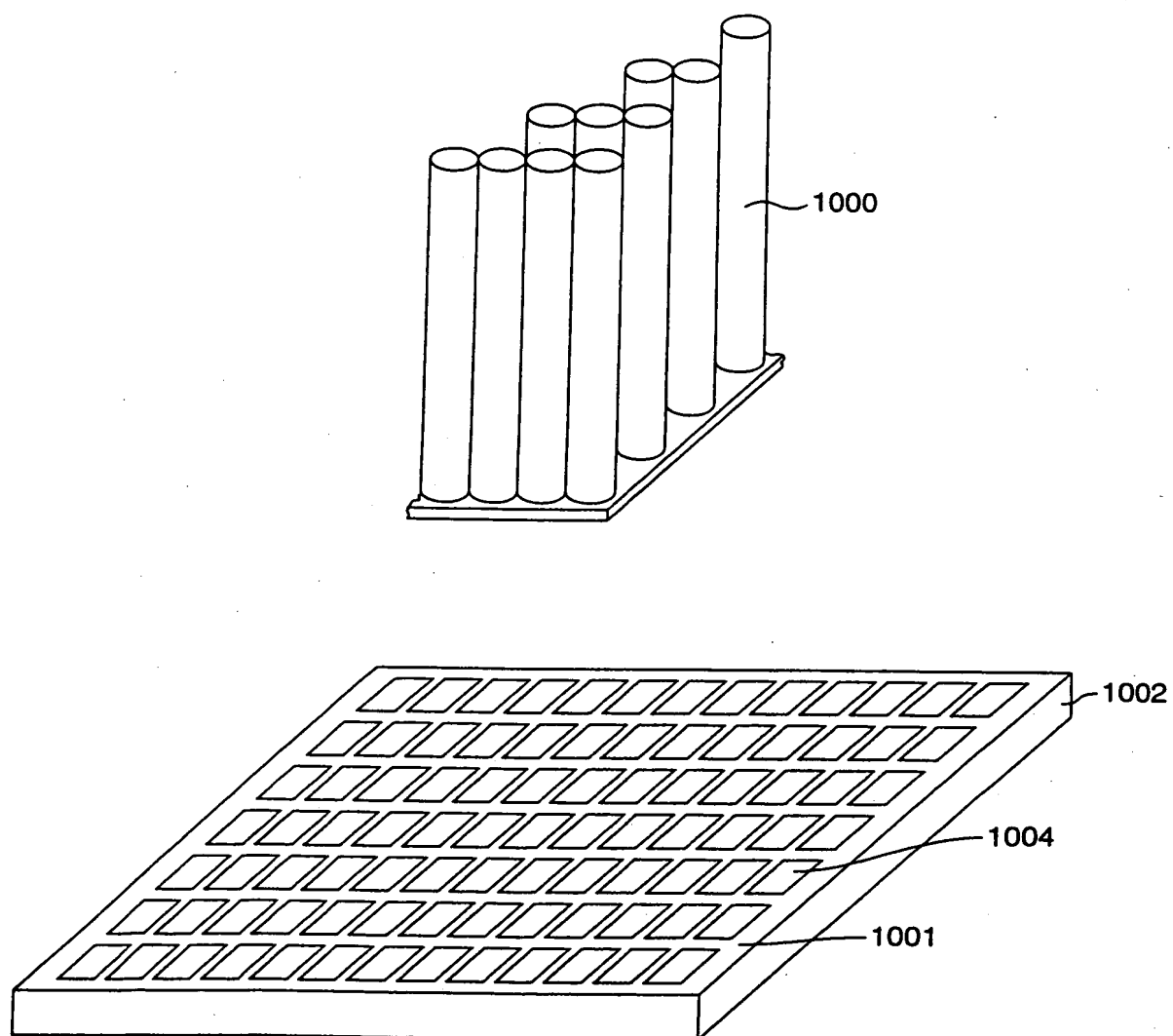
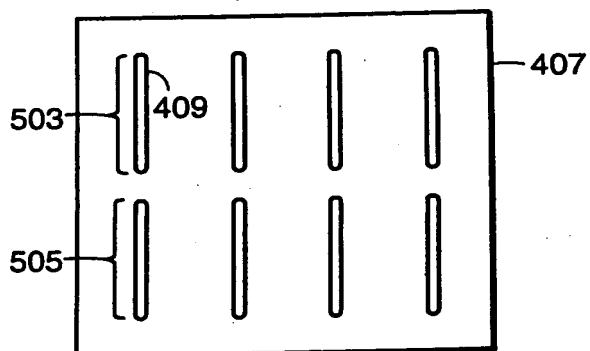
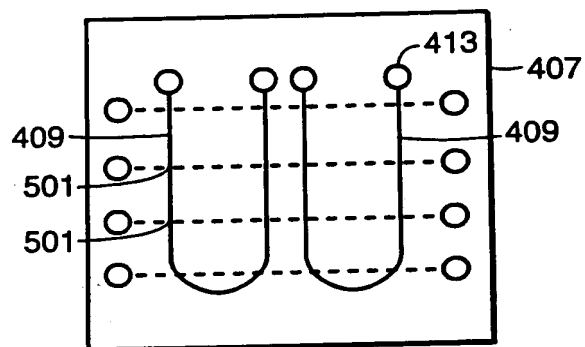
[illegible]

FIG. 12



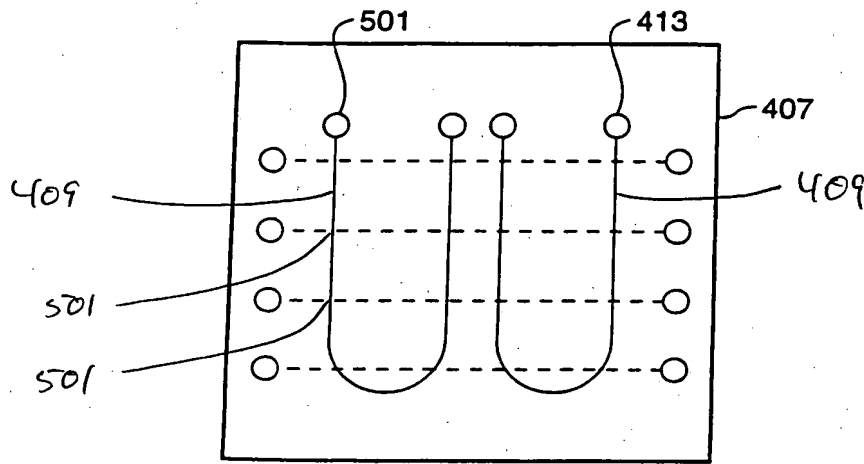


FIG. 13A

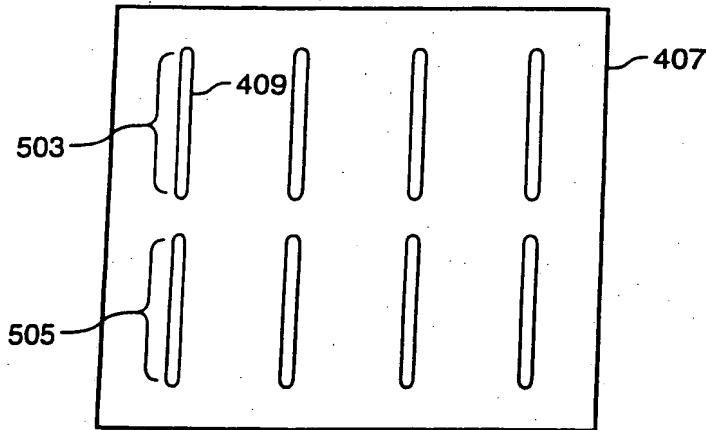


FIG. 13B

Chemical reaction scheme showing the synthesis of 1-(3,5-bis(RO)phenyl)-2-bromo-2-(undecyl)ethane-1,1-diol from 1,3-bis(RO)benzene.

Starting material: 1,3-bis(RO)benzene

Reaction 1: Friedel-Crafts acylation with  $\text{C}_{11}\text{H}_{25}\text{COCl}$  and  $\text{AlCl}_3$  yields 1-(3,5-bis(RO)phenyl)undecan-1-one.

Reaction 2: Nitration with  $\text{HNO}_3$  yields 1-(3,5-bis(RO)phenyl)-2-nitroundecan-1-one.

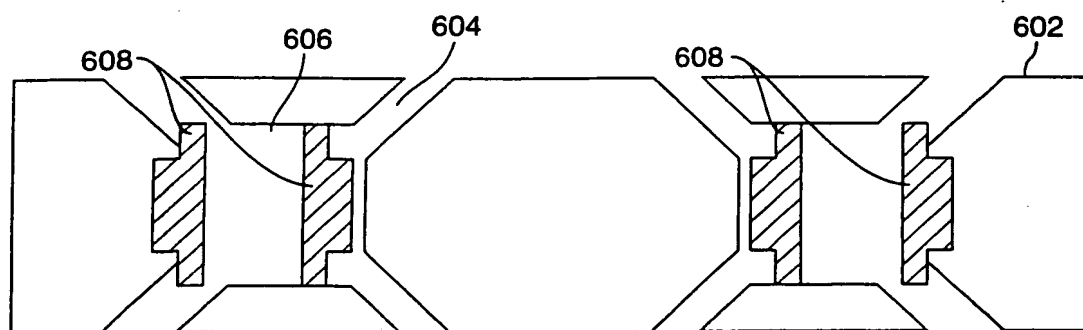
Reaction 3: Reduction with  $\text{NaBH}_4$  yields 1-(3,5-bis(RO)phenyl)-2-nitroundecan-1-ol.

Reaction 4 (Left): Reaction with  $\text{Br}_2/\text{Ph}_3\text{P}$  yields 1-(3,5-bis(RO)phenyl)-2-bromo-2-(undecyl)ethane-1,1-diol.

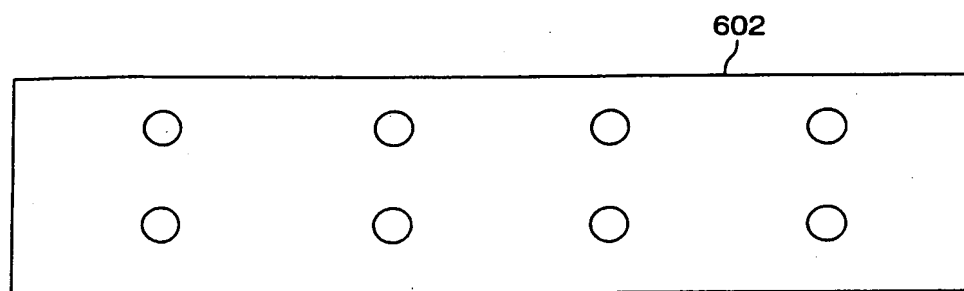
Reaction 5 (Right): Reaction with  $(\text{CH}_2\text{O})_n/\text{HCl}$  yields 1-(3,5-bis(RO)phenyl)-2-(chloromethoxy)-2-(undecyl)ethane-1,1-diol.

Reaction 6 (Bottom): Reaction with  $\text{COCl}_2$  yields 1-(3,5-bis(RO)phenyl)-2-(chloroformyl)-2-(undecyl)ethane-1,1-diol.

**FIG. 14**



**FIG. 15A**



**FIG. 15B**

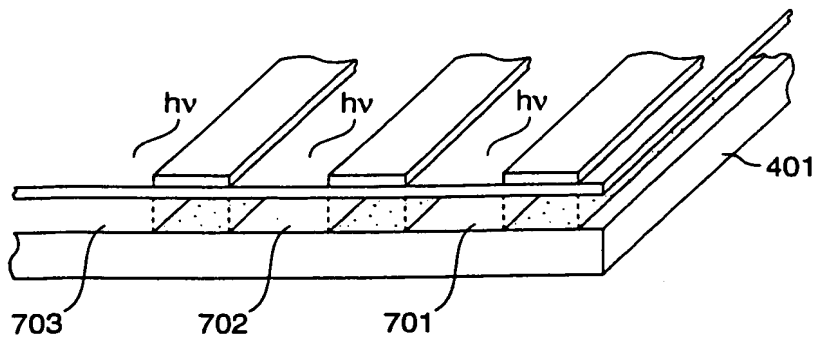


FIG. 16A

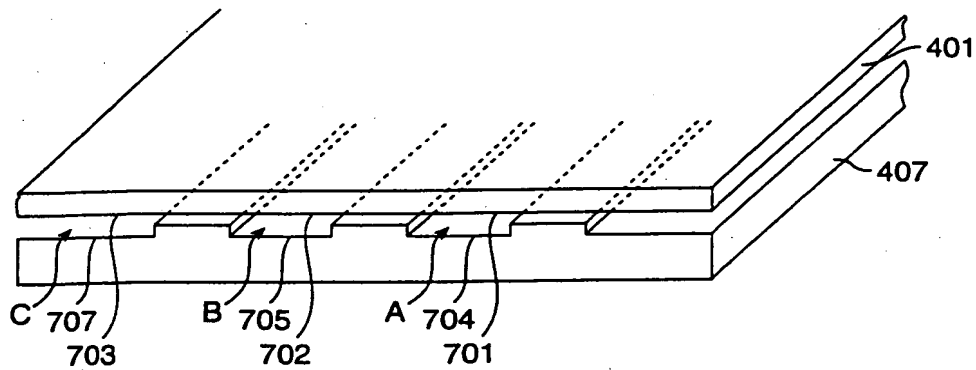


FIG. 16B

332507602500



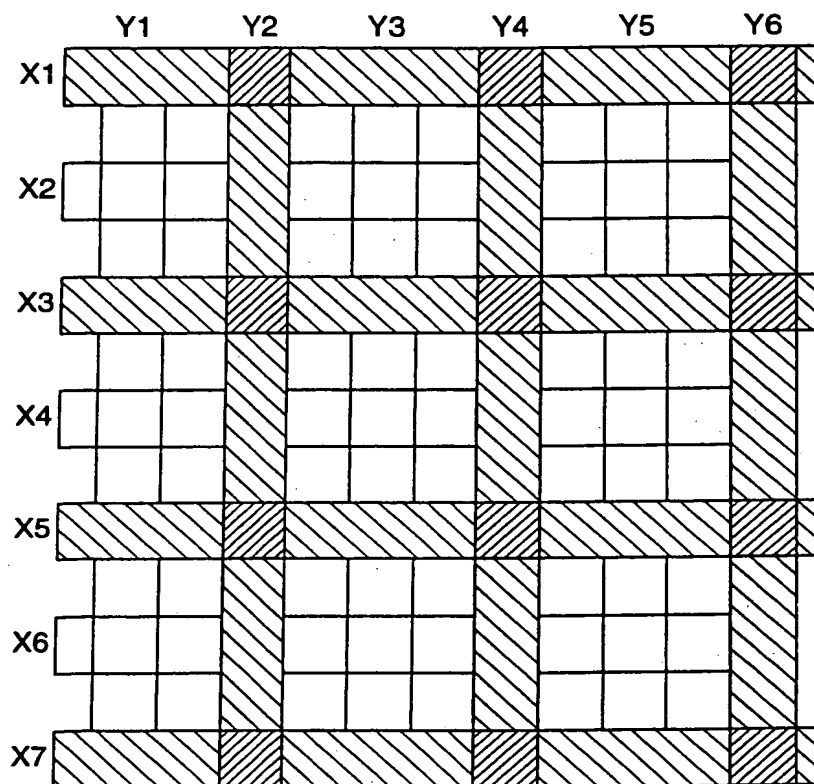


FIG. 17

00570004 0E2E00

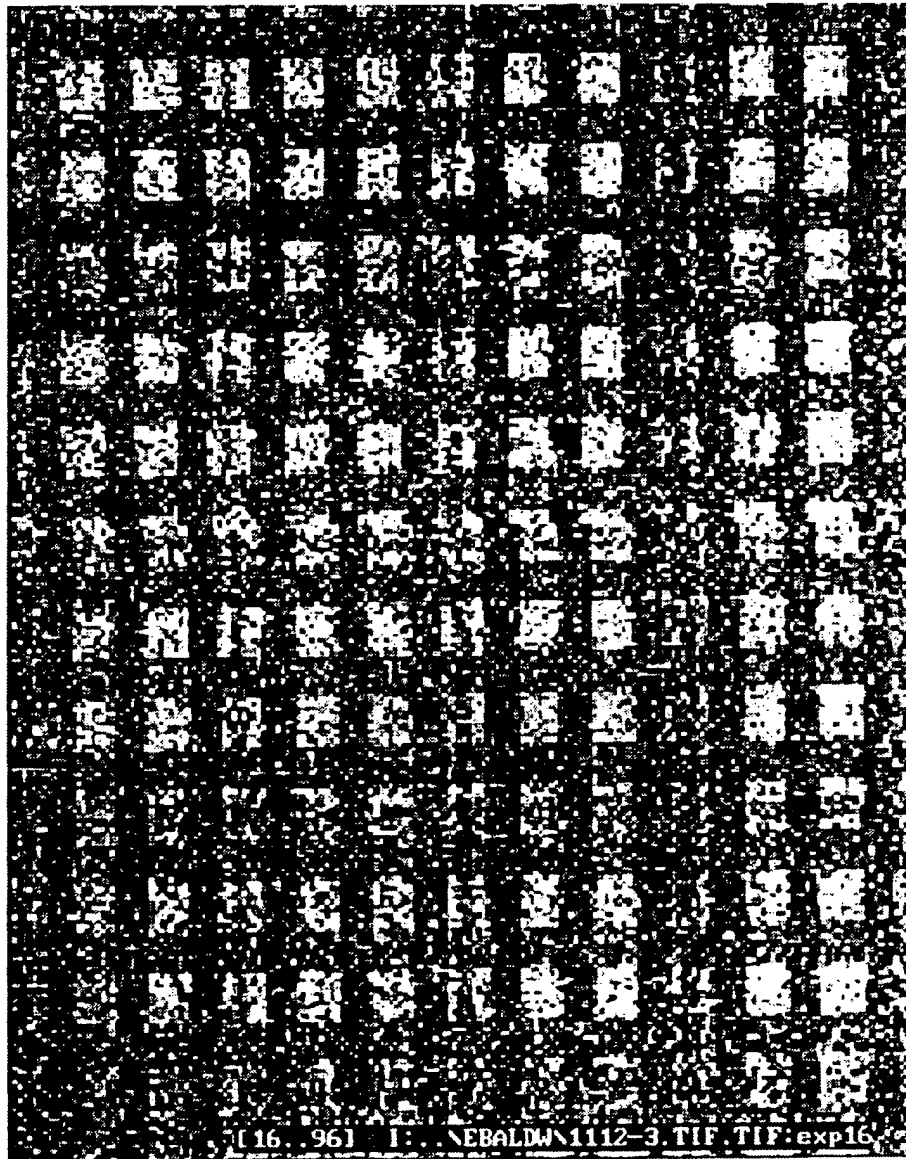


FIG. 22

The image displays a highly textured, high-contrast black and white surface. It features a dense, vertical pattern of fine lines and dots, resembling a woven fabric or a book cover with a complex texture. The overall appearance is grainy and abstract, with a thick black border surrounding the central patterned area.

FIG. 21

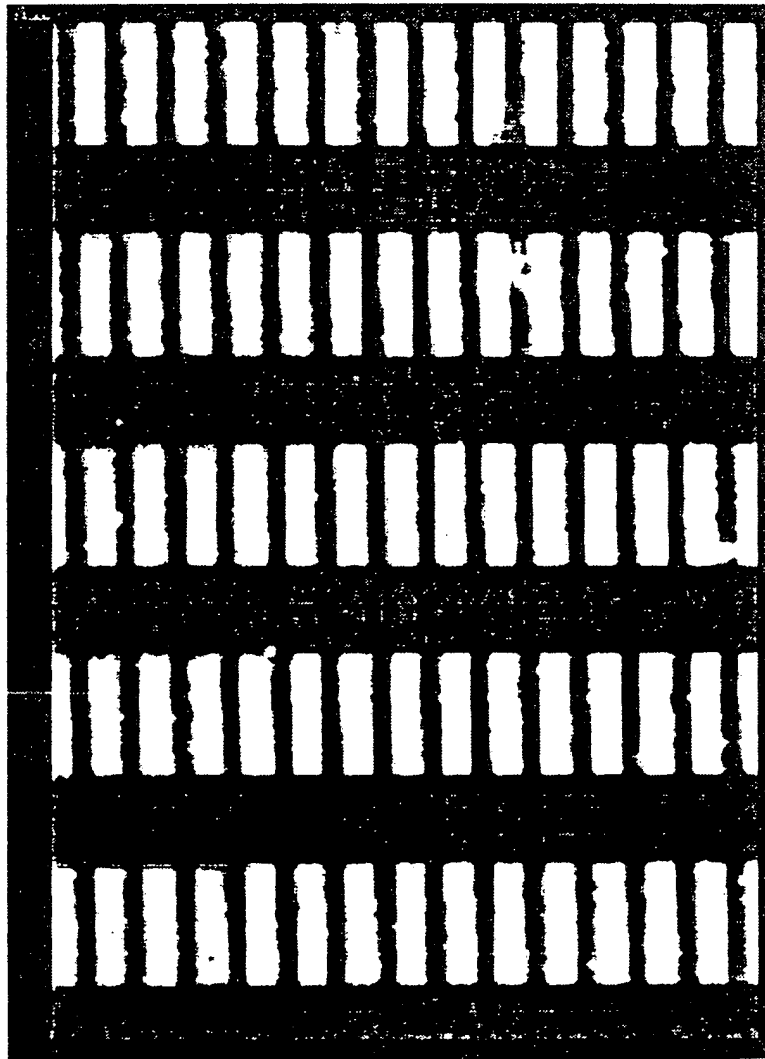


FIG. 20

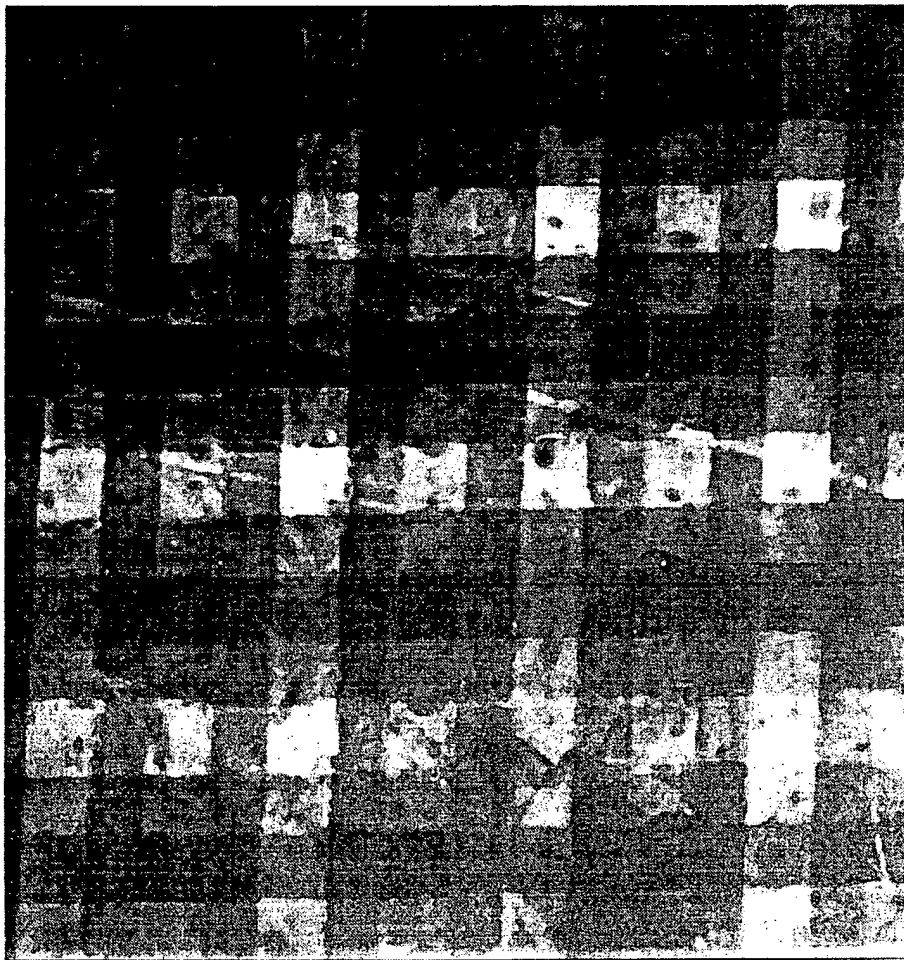


FIG. 19

A high-contrast, black and white image of a 4x4 checkerboard pattern. The squares are arranged in a grid, with alternating dark and light squares. The image is heavily degraded with significant noise, including white speckles and streaks, particularly along the edges of the squares.

FIG. 18